

Solutions for AdvancedTCA, AdvancedTCA 300, MicroTCA, and AdvancedMC Standards

Tyco Electronics Corporation Harrisburg, PA

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Introduction

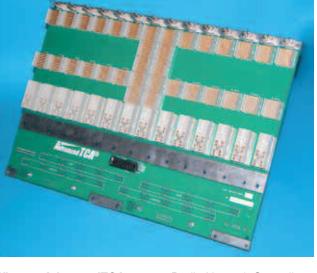


Solutions For AdvancedTCA

Hardware designers, particularly those working on blades or chassis, are currently faced with huge challenges. The needs of the communications network infrastructure and next generation communication applications are rapidly changing, and cannot be served by existing proprietary solutions.

Therefore AdvancedTCA (Advanced Telecommunications Computing Architecture), MicroTCA (Micro Telecommunications Computing Architecture) and AdvancedMC (Advanced Mezzanine Card) open industry standards have been developed by PICMG to place a high priority on cost effectiveness while attempting to support a variety of potential future technologies.

This new standard is also supported by Tyco Electronics, which shows the full range of AdvancedTCA, MicroTCA and AdvancedMC compliant components that can be offered for the wide area of applications within telecommunication as well as data communication.



Why are AdvancedTCA and MicroTCA Standards Important?

AdvancedTCA and MicroTCA provide a means for the telecommunications equipment market to take advantage of standardized, off-the-shelf hardware (enabling differentiation through application-layer and system-level software rather than hardware).

- Shorter time to market
- Increased vendor choice
- Increased flexibility
- Multiple switch fabrics supported
- User defined I/O
- Lower cost (Acquisition CapEx/OpEx)

Examples of Telecom & Network Equipment Manufacturers' Related AdvancedTCA and MicroTCA Applications & Systems

Wireless Infrastructure Equipment

 Base Stations 3G (IMT-2000) WCDMA CDMA2000 TD-SCDMA

- Radio Network Controllers (RNC)
- Serving Gateway Support Node (SGSN)
- Gateway GPRS Support Node (GGSN)
- Home Location Register
- IP Multimedia Subsystem (IMS) Servers
- Media and Application Servers
- Media Gateways and Soft Switches

Wireline Networking Equipment

- DSLAMs
- Multi-service switches
- Media servers
- Blade servers
- VOIP Session Controllers

Fiber Optic Networking Equipment

Call Technical Support at the numbers listed below.

Need more information?

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- Tyco Electronics Authorized Distributor Locations

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Introduction (Continued)



What Is AdvancedTCA?

AdvancedTCA is an open industry standard, developed by PICMG 3.0, to create a new blade (board) and chassis (shelf) form factor, tailored to meet the needs of the rapidly changing communications network infrastructure, and next generation communication applications, which cannot be served by existing proprietary solutions. This architecture places high priority on cost effectiveness versus attempting to support a variety of potential future technologies.

While the specification is founded on the requirements of the communications infrastructure, it is extensible to a variety of applications and environments where highly available, highly scalable, cost effective and open architecture modular solutions are required.

The architecture is optimized around connectivity requirements of signaling and media gateways, while also providing headroom for higher performance computing elements @ a 99.999% availability rate. AdvancedTCA offers a scalable backplane environment that supports:

- A variety of standard and proprietary fabric interfaces
- Robust system management
- Superior power and cooling capabilities.

Each board in AdvancedTCA (up to 16 boards a shelf and 3 shelves a rack) may support up to 200 W in a single slot. The power is supplied to each board via redundant -48 VDC feeds. Front and rear cabling practice is supported for standard 600 mm total depth cabinet practice, prevalent in Central Office facilities.

Advanced TCA® 300

What Is AdvancedTCA300?

AdvancedTCA300 is an AdvancedTCA based equipment platform, but compliant with the ANSI and ETSI equipment practices requiring 300 mm total depth, front access included.

AdvancedMC™

What Is AdvancedMC?

The AdvancedMC standard. also developed by PICMG. defines the base-level requirements for a widerange of high-speed mezzanine cards, optimized for, but not limited to, AdvancedTCA and MicroTCA carrier blades. AdvancedMC defines a modular add-on or "child" card that extends the functionality of an AdvancedTCA carrier board. In an AdvancedTCA equipment practice, the AdvancedMC modules lie parallel to and are integrated onto the AdvancedTCA carrier board. The AdvancedMC cards can also be equipped in MicroTCA shelves.

"TCA™

What Is MicroTCA?

MicroTCA is complementary to AdvancedTCA, but is optimized for smaller scale and more price sensitive applications. The basic premise of MicroTCA is to support mezzanine boards, conform to the AdvancedMC standard, and connect to the backplane, eliminating the need to use an additional carrier board. Like AdvancedTCA, the MicroTCA equipment practice is a modular, open standards based shelf level platform. The MicroTCA standard has not finished completion yet.

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www.tycoelectronics.com/products/atca



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ability of, and test each product for, their

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See inside back cover for Global Contacts and phone numbers.

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RoHS Compliant — Part numbers in this catalog are RoHS Compliant, unless marked otherwise. These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006.

NOTE: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.

5 of 6 Compliant — A "●" symbol identifies these part numbers. These products do not fully comply with the European Union Directive 2002/95/EC because they contain lead in solderable interfaces (they do not contain any of the other five restricted substances above allowable limits). However, these products may be suitable for use in RoHS applications where there is an application-based exception for lead in solders, such as the server, storage, or networking infrastructure exemption.

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- More detailed information regarding the definitions used above
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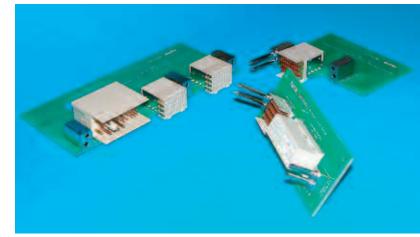


AdvancedTCA — Zone 1 Power Connectors

Tyco Electronics' AdvancedTCA Power Connector is designed to meet or exceed the PICMG 3.0, R2.0 (AdvancedTCA) specification for Zone 1 connector requirements including four levels of sequential mating to provide proper system functionality during live insertion or extraction of front boards. Integrated lead-in on the injection molded housing provides superior blind mate capability and is fully intermateable with competing connectors designed to meet the AdvancedTCA specification for power con-

www.tycoelectronics.com/products/atca www.elconproducts.com

Catalog 1773096 / 1773095 Flyer 2-1773441-7



FEATURES:

- High conductivity, precision formed contacts
- Selective plating in compliance with RoHS requirements
- Precision formed compliant terminations offer excellent retention to provide a reliable connection
- Qualified to meet PICMG 3.0, R2.0 specification

AdvancedTCA Zone 1 Connector

Front Board Connector Right Angle Header Part Number 1766500-1

Backplane Connector Vertical Receptacle Part Number 1766501-1



Backplane Connector



Daughtercard Connector

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Note: Part Numbers are RoHS compliant.

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Product Defined in AdvancedTCA/ AdvancedTCA 300 Specifications



AdvancedTCA Zone 1 Connector

(Continued)

Front Board Connector Right Angle, **Compliant Press-fit** Part Number 1766500-1 (tin plated pcb tails) Part Number 1766500-2 (tin-lead pcb tails)

Right Angle Plug, 22-Position, **Compliant Press-fit** Part Number 1766502-1 (tin plated pcb tails) Part Number 1766502-2● (tin-lead pcb tails)

Material and Finish

Insulators — Thermoplastic, glass reinforced, black, UL94V-0

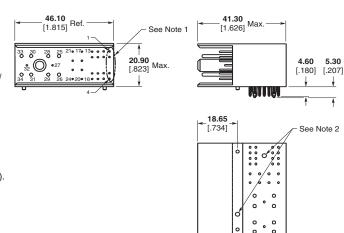
Signal Pins — Copper alloy

Power Contacts — High conductivity copper alloy, plated 0.00076 [.000030] min. gold in mating area

Solder Tails — 0.0030 - 0.0043 [.000120 - .000170] tin plated

Notes:

- 1. Mounting Holes (Ø 2.00 [.079] x 5.00 [.197] DP) for use with self tapping screw (customer supplied)
- 2. Positions 1-4 not populated and reserved for future use.



Backplane Connector Straight, Compliant Press-fit, Part Number 1766501-1 (tin plated pcb tails) Part Number 1766501-2 (tin-lead pcb tails)

Straight, 22-Position, **Compliant Press-fit** Part Number 1766503-1 (tin plated pcb tails) Part Number 1766503-2● (tin-lead pcb tails)

Material and Finish

Insulators — Thermoplastic, glass reinforced, black, UL94V-0

Signal Pins — Copper alloy

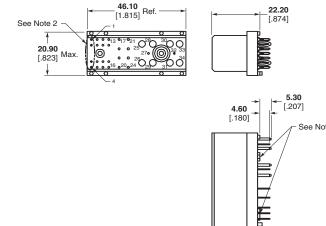
Power Contacts — High conductivity copper alloy, plated 0.0076 [.000030] min. gold in mating area

Solder tails — 0.0030 - 0.0043 [.000120 - .000170] tin plated

Notes:

- 1. Mounting Holes (Ø2.00 [.079] x 5.00 [.197] DP) for use with self
- tapping screw (customer supplied).

 2. Positions 1–4 not populated and reserved for future use.



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Note: Part Numbers are RoHS compliant except: ● Indicates "5 of 6 compliant" (lead in solderable interface only).

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AdvancedTCA — Zone 2 Z-PACK HM-Zd High Speed Signal Connectors

Z-PACK HM-Zd product from Tyco Electronics is the high-speed, Advanced Differential Fabric Connector system specified by PICMG for use in AdvancedTCA Zone 2. The coplanar application version using the right angled male and identical Zone 2 card connector (right angled female), can be used in Zone 3. In addition to the four-pair connector modules specified for use in AdvancedTCA Zone 2, the product line includes two-pair and threepair signal modules, coplanar connectors, and high-speed cable assemblies for use in Zone 3. A mezzanine style connector is also available in a four-pair version.

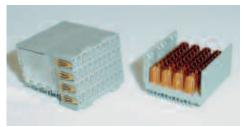
www.tycoelectronics.com/products/atca www.hmzd.tycoelectronics.com

Catalog 1773095 Flyer 1308658

FEATURES

- Designed specifically for highspeed differential applications (3.125 Gb/s to 10+Gb/s)
- A modular connector system with a standard module size of 25.00
- Z-PACK HM-Zd product is an extension of the Z-PACK 2 mm HM product line
- Pin header and receptacle have the exact same footprint to simplify PC board layout
- Optimized footprint supports quad routing techniques for improved electrical performance, ease of trace routing, and significant PCB manufacturing cost reductions
- Designed to meet Telcordia requirements

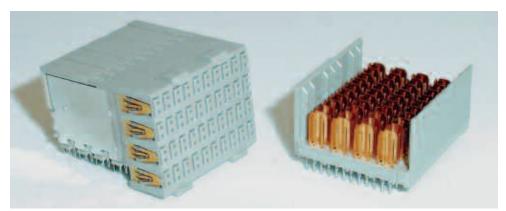




AdvancedTCA Zone 2 **Z-PACK HM-Zd High Speed Signal Connectors**

Front Board Connector 4 Pair Right Angle Receptacle Part Number 6469001-1

Backplane Connector 4 Pair Vertical Header Part Number 6469002-1



Front Board Connector

Backplane Connector

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Note: Part Numbers are RoHS compliant.

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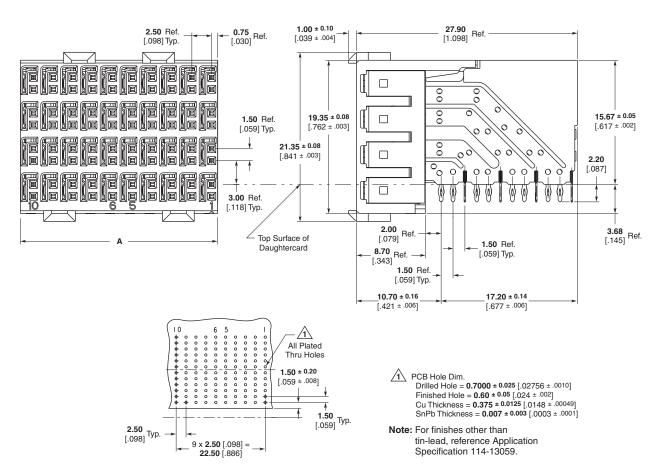
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Product Defined in AdvancedTCA/
AdvancedTCA 300 Specifications



AdvancedTCA Zone 2 Z-PACK HM-Zd High Speed Signal Connectors (Continued)

4 Pair Right Angle Receptacle Assemblies



Recommended PC Board Layout Daughter Board, Component Side Shown

					Application Tooling		
Part Number	Column	Module Length	Signals	Signals Grounds —	Insertion	Repair	
Turt Number	Count	(Dim. A)	Oigilais		Receptacle	Housing Removal	Chiclet Removal
6469001-1 ¹	10	25.00 .984	80	40	91347-1	1583224-1	1583248-1
6469286-1	12	30.00 1.181	96	48	91347-3	1583224-2	1583248-1
6469294-1	15	37.50 1.476	120	60	91347-2	1583224-3	1583248-1
6469061-1	20	50.00 1.969	160	80	91347-4	1583224-4	1583248-1

¹ AdvancedTCA Zone 2 Daughtercard Connector. Note: Part Numbers are RoHS compliant.

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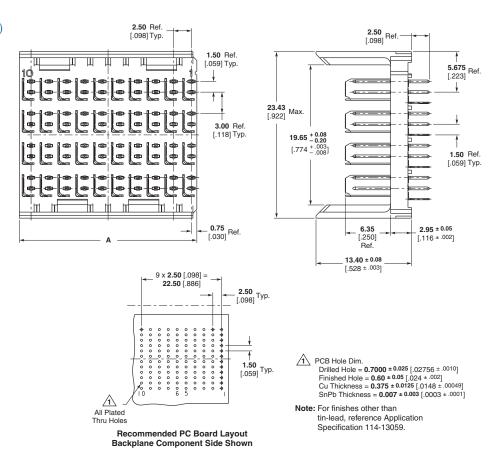
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AdvancedTCA Zone 2 Z-PACK HM-Zd High Speed Signal Connectors (Continued)

4 Pair Vertical Pin Header Assemblies



												Application	on Tooling	
Part Number	Tail	Mating Pin	Column		Signals	Grounds	Insertion		Repair					
	Length	Length	Count				Signals Glounds	Pin Header	Pin Removal	Housing Removal	Pin Insertion			
6469002-11	2.50 .098	5.30 .209	10	25.00 .984	80	40	91349-1	1583237-1	1583220-1	1583255-1				
6469046-1 ²	2.50 .098	5.30 .209	10	25.00 .984	80	40	91349-1	1583237-1	1583220-1	1583255-1				
6469074-1	1.80 .071	5.30 .209	10	25.00 .984	80	40	91349-1	1583237-1	1583220-1	1583255-1				
6469287-1	2.50 .098	5.30 .209	12	30.00 1.181	96	48	91349-3	1583237-1	1583220-1	1583255-1				
6469296-1	2.50 .098	5.30 .209	15	37.50 1.476	120	60	91349-2	1583237-1	1583220-1	1583255-1				
6469062-1	2.50 .098	5.30 .209	20	50.00 1.969	160	80	91349-4	1583237-1	1583220-1	1583255-1				
6469099-1	1.80 071	5.30	20	50.00	160	80	91349-4	1583237-1	1583220-1	1583255-1				

¹ AdvancedTCA Zone 2 Backplane Connector.

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Product Defined in AdvancedTCA/
AdvancedTCA 300 Specifications

² Shallow Wall for Daughtercards thicker than 3.50 [.138]. **Note:** Part Numbers are RoHS compliant.

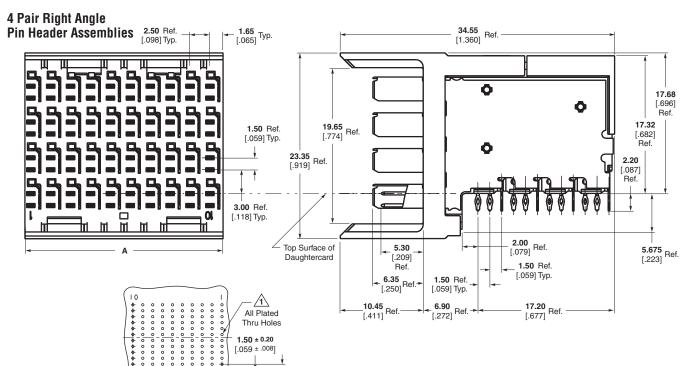


Z-PACK HM-Zd RTM Board Connector for AdvancedTCA Zone 3 Standard

AdvancedTCA Zone 3 Z-PACK HM-Zd High Speed, Co-Planar **RTM Board Connector**

4 Pair Right Angle Header Part Number 6469048-1 Part Number 6469375-1 **Front Board Connector** 4 Pair Right Angle Receptacle Part Number 6469001-1 (see page 8)





22.50 [.886] Recommended PC Board Layout Component Side Shown

9 x **2.50** [.098] =

PCB Hole Dim.
Drilled Hole = **0.7000** ± **0.025** [.02756 ± .0010] Finished Hole = 0.60 ± 0.05 [.024 ± .002]
Cu Thickness = **0.375** ± **0.0125** [.0148 ± .00049]
SnPb Thickness = **0.007** ± **0.003** [.0003 ± .0001]

Note: For finishes other than tin-lead, reference Application Specification 114-13059.

							Application Tooling				ing
Part		Insertion	R	epair							
Number	Length	Length	Count	(Dim. A)	olgitals alounus	Groundo	Pin Header	Housing Removal	Chiclet Removal		
6469048-1	2.20 .087	5.30 .209	10	25.00 .984	80	40	91378-1	1804174-1	1804177-1		
6469375-1	2.20 .087	5.30 .209	12	30.00 1.181	96	48	91378-3	1804174-1	1804177-1		

Note: Part Numbers are RoHS compliant.

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Co-Planar UPM for AdvancedTCA Zone 3 Power Applications

The Co-Planar Universal Power Module (UPM) is specifically designed to meet the need of connecting two printed circuit boards on the same plane. The UPM connector features hot-pluggable, 16 Amp power industry proven contacts and have three sequencing levels.

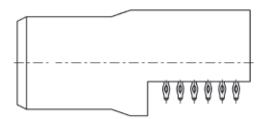
FEATURES

- Hot-Pluggable contact design
- 16 Amp per contact (on 4-position)
- 250 cycle durability
- Touch-safe receptacle



Right Angle Receptacle

No. of Circuit Positions	Right-Angle High Power 16 Amps/ Contact Part Numbers				
3	120943-1				
4	120943-2				
5	120943-3				
6	120943-4				
7	120943-5				
8	120943-6				
9	120943-7				

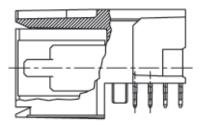


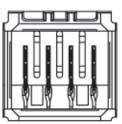
Right Angle Plug

Number of Positions	Dimension L	High Power 16 Amps/ Contact Sequence* Pattern	Part Number
		M,M,M	5-5223961-1
3	12.00 .472	M,L,M	5-5223963-1
	,_	**	**
	45.00	L,L,L,L	120954-1
4	15.00 .591	L,M,S,S	120954-2
	.001	**	**
	40.00	L,L,L,L,L	120955-1
5	18.00 .709	M,M,L,M,M	120955-2
	., 00	**	**
		L,L,L,L,L,L	120956-1
6	21.00 .827	L,M,S,S,S,S	120956-2
	.027	**	**
7	24.00	L,L,L,L,L,L	120957-1
/	.945	L,S,S,L,S,S,L	120957-2
8	27.00	L,L,L,L,L,L,L	120958-1
	1.063	L,M,S,S,S,S,S	120958-2

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Note: Part Numbers are RoHS compliant.





Catalog 3-1773445-8 Revised 6-07

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are U.S. equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

Product Defined in AdvancedTCA/ AdvancedTCA 300 Specifications

^{*}Sequencing Reads left-to-right along mating face. L (long) = 10.90 [.429], M (medium) = 9.30 [.366], S [short] = 7.68 [.302] **Other sequence patterns available. See on-line customer drawing.



Z-PACK TinMan Connectors for AdvancedTCA Standards — Zone 3

Tyco Electronics Z-PACK TinMan product is a new high speed, 100-Ohm Impedance matched connector with extreme signal density. This connector can be pinned out for lower speed signal ended lines and exists in 3, 4, and 5 pair per column versions.

FEATURES:

- High speed: +10 Gbps
- High Density: 25 pair/cm [66

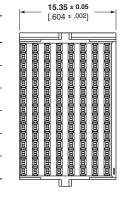
Electronics

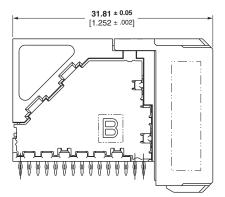
- 3, 4, and 5 pair per column versions (5 pair shown)
- Available with or without end walls for pin protection
- Designed to meet Telcordia requirements



Z-PACK TinMan Receptacles

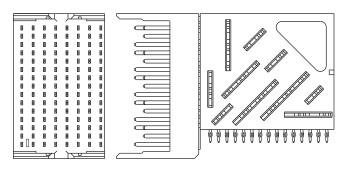
No. of Pairs	Columns	Part Number	Dimensions		
No. of Pairs	Columns	Diulilis Fart Nulliber		Width	
3	8	1934226-1	31.81 1.25	15.35 .604	
3	16	1934229-1	31.81 1.25	30.55 1.203	
4	8	1934222-1	31.81 1.25	15.35 .604	
4	16	1934225-1	31.81 1.25	30.55 1.203	
	8	1934218-1	31.81 1.25	15.35 .604	
5	16	1934221-1	31.81 1.25	30.55 1.203	





Z-PACK TinMan Headers

No. of Boiro	No. of Pairs Columns		Dimen	End	
No. or Pairs	Columns	Part Number	Length	Width	Walls
	8	1469974-1	31.81 1.25	15.35 .604	N
3	0	1469977-1	31.81 1.25	18.05 .710	Υ
3	16	1934034-1	31.81 1.25	30.55 1.203	N
	16	1934037-1	31.81 1.25	33.25 1.31	Υ
	8	1469793-1	31.81 1.25	15.35 .604	N
4		1469795-1	31.81 1.25	18.05 .710	Υ
4	16	1934026-1	31.81 1.25	30.55 1.203	N
		1934029-1	31.81 1.25	33.25 1.31	Υ
	8	1469735-1	31.81 1.25	15.35 .604	N
5	8	1469737-1	31.81 1.25	18.05 .710	Υ
5	16	1934018-1	31.81 1.25	30.55 1.203	N
	10	1934021-1	31.81 1.25	33.25 1.31	Υ



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AdvancedTCA — Advanced Mezzanine Card (AdvancedMC) Connectors

Tyco Electronics is developing an AdvancedMC connector designed to meet the PICMG AdvancedMC specification for use with AdvancedTCA carrier boards and other related applications. The AdvancedMC product family from Tyco Electronics will include single-part Z-Pluggable connectors in Extended (B+ and A+B+) styles.

www.tycoelectronics.com/products/atca

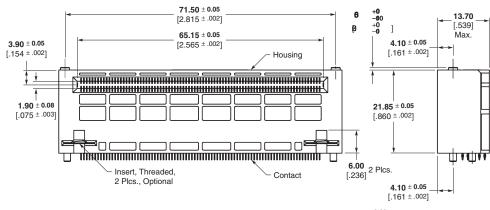
Product Specification 108-2277

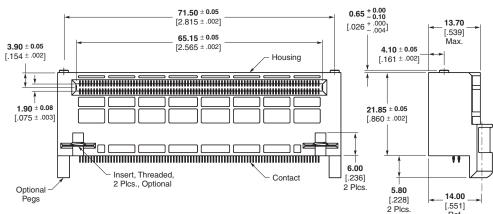
Application Specification 114-13181

FEATURES

- B+ style available now
- A+B+ styles planned
- Targeted for high-speed differential applications (3.125 Gb/s to 10+ Gb/s):
- Precision formed compliant pin reduces stub effect and offers excellent retention to provide a reliable connect
- Suitable for assembly processes using flat-rock tooling

AdvancedMC Connector, Style B+ Part Number 1367703-X





Part Number	Plating	Inserts	Pegs
1367703-1●	SnPb	No	No
1367703-2	Sn	No	No
1-1367703-1	SnPb	Yes	No
1-1367703-2	Sn	Yes	No
2-1367703-1	SnPb	No	Yes
2-1367703-2	Sn	No	Yes
3-1367703-1●	SnPb	Yes	Yes
3-1367703-2	Sn	Yes	Yes

Note: Part Numbers are RoHS compliant except: ● Indicates "5 of 6 compliant"

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www.tycoelectronics.com

(lead in solderable interface only).

Catalog 3-1773445-8 Revised 6-07 Dimensions are in millimeters and inches unless otherwise specified. Values in brackets

are U.S. equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

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South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

Product Defined in AdvancedTCA/ AdvancedTCA 300 Specifications



MULTI-BEAM XL Connectors for AdvancedTCA 300 Standard

MULTI-BEAM XL product has recently been specified as the Power Entry Module (PEM) connector for use in AdvancedTCA 300 applications. This new MULTI-BEAM XL connector is a blind-mateable board-to-board power distribution connection system that is designed to meet the AdvancedTCA 300 specification. This new addition to the Tyco Electronics MULTI-BEAM XL product line is selectively loaded and available with press-fit or solder tail termination styles.

FEATURES:

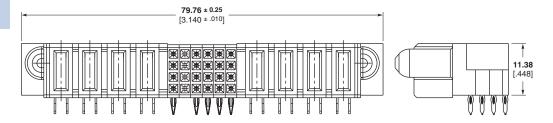
- Meets the AdvancedTCA 300 Specification
- 55 Amp Single Power Contact, 4 Amp Single Signal Contact
- Solder or Press-Fit termination to
- Specially sequenced for the AdvancedTCA Specification
- Custom configurable modular design

Right Angle Receptacle For use on PEM Part Number 1888765-1 (Press-Fit Version)

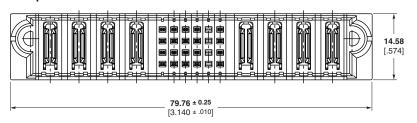
Vertical Plug For use on backplane Part Number 1888766-1 (Press-Fit Version)

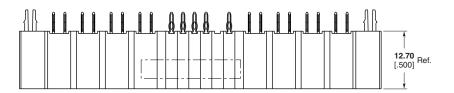


PEM Connector



Backplane Connectors





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Note: Part Numbers are RoHS compliant.

Catalog 3-1773445-8

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AdvancedTCA — Guide Modules

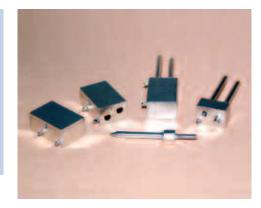
Tyco Electronics AdvancedTCA Guide Modules are available in various sizes and configurations and are suitable for use in a wide variety of applications including front board, mid plane, backplane, and a Rear Transition Module as specified in the AdvancedTCA specification. The guide hardware features improved locating features to confirm guidance is maintained across all component tolerances while the dual-keyed pin configuration allows for many different keying possibilities.

www.tycoelectronics.com/products/atca

Catalog 1773095

FEATURES:

- Configurations for front board and backplane as well as midplane and coplanar applications in the RTM
- Vertical and right angle pins to support right angle and coplanar board configurations
- Guide pins are available in short or long lengths to accommodate various Tyco Electronics connectors



Product Defined in AdvancedTCA/ AdvancedTCA 300 Specifications

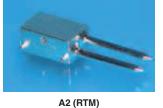
AdvancedTCA Guide/ **Keying Modules**

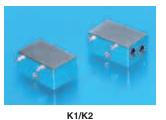
The AdvancedTCA Guide Modules can be used in a wide variety of applications. For motherboard-todaughtercard applications the vertical pin and right angle socket are used. This popular configuration is further supported by our wide offering of available keying positions. Each of the two keyed guide pins and guide sockets per module can be produced in a variety of different key positions. For co-planar applications, the right angle guide pins are used along with the right angle guide sockets. Both vertical and right angle guide pins are available in short or long sizes, to accommodate being used with different Tyco Electronics connectors.





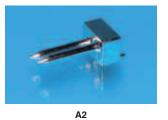






rA1





AdvancedTCA AdvancedTCA Description Part Number Rear Alignment Post 3.00 – 4.00 [.118 – .157] PCB Thickness 1469269-2 rA1 Backplane Rear Alignment Post 4.10 – 6.00 [.161 – .236] PCB Thickness rA1 Backplane 1469269-4 Rear Alignment Post **6.10 – 8.00** [.240 – .315] PCB Thickness rA1 Backplane 1469269-6 A2 (RTM) Rear Transition Module Right Angle Male, Keyed 1-1469372-1 K1/K2 Front Board Right Angle Female, Keyed 1-1469373-1 K1/K2 Front Board Right Angle Female, Unkeyed Dummy 9-1469373-9 rK1 Rear Transition Right Angle Female 1469374-1 A1 Backplane Vertical Male, Keyed, Short 1-1469387-1 A2 Mid-Plane Vertical Male, Keyed, Long 1-1469388-1

Note: Part Numbers are RoHS compliant.

Product Defined in MicroTCA Specification

Vertical AdvancedMC Connector for MicroTCA Applications

FEATURES

- Press-fit connector per MicroTCA.0 Specification
- 170 lines
- Connector designed so that custom load patterns are easily created
- Single overmolded wafer design
- Fully validated electrical models available

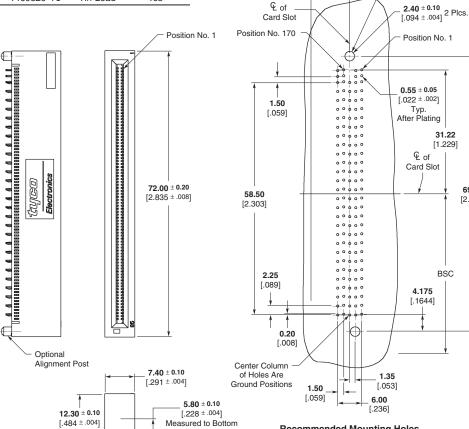


Part Number 1469820-X

Product Specification 108-2254

Application Specification

Part Number	Tail Plating	Alignment Post
1469820-1	Tin	No
1469820-2	Tin	Yes
1469820-3●	Tin-Lead	No
1469820-4●	Tin-Lead	Yes



of Card Slot

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Note: Part Numbers are RoHS compliant except: ● Indicates "5 of 6 compliant" (lead in solderable interface only).

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Recommended Mounting Holes

Optional Holes Used with

69.30

1469944-2



Product Defined in MicroTCA Specification (Continued)

MINIPAK HD Power Connectors

The MINIPAK HD Connector is a 2-piece board-to-board connector designed to meet the PICMG MicroTCA specification. The connector consists of 24 power contacts and 72 high density signal contacts.

Application

Designed for a broad range of applications in Telecom Edge and customer premise equipment, CATV hardware, wireless base stations and other communication equipment manufactured to the MicroTCA (PICMG AdvancedMC 1.0) specification. Rugged contact design and post-plated 30 micro-inch gold plating provides long-term reliability in demanding environments.

Electrical Characteristics

Current Ratings — tested in accordance with IEC 60512-5-2 Test 5a requirements:

Signal Contacts — .625 ampere each

Power Contacts — 11.625 ampere each (PICMG MicroTCA

R1.0 requirement) 14.5 ampere each (Tyco Electronics MINIPAK HD performance)

Dielectric Withstanding Voltage —

80 volts rms between differential pair conductors, general purpose conductors, and power conductors

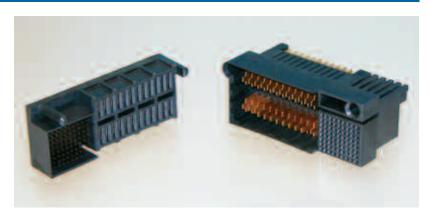
Environmental Characteristics Maximum Continuous Operating

Temperature — 100°C **Durability Rating** — 250 cycles

Technical Documents

Tyco Electronics Product Specification — 108-2253

PICMG Specification — PICMG MicroTCA Standard



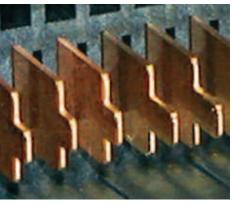
FEATURES:

- High Current Density
- 24 power contacts capable of carrying 14.5 Amps per contact when fully energized
- Industry proven UPM power contacts
- Hot Plug contact design controls arc during hot mate/un-mate
- 3 Mating Levels:

1st — Power/Ground, 2nd — Power/Signal,

3rd — Short/Enable Signal

• Tin Plated (fully RoHS compliant) or tin-lead (5 of 6 RoHS compliant) pcb tails



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Catalog 3-1773445-8 Revised 6-07

Product Defined in MicroTCA Specification



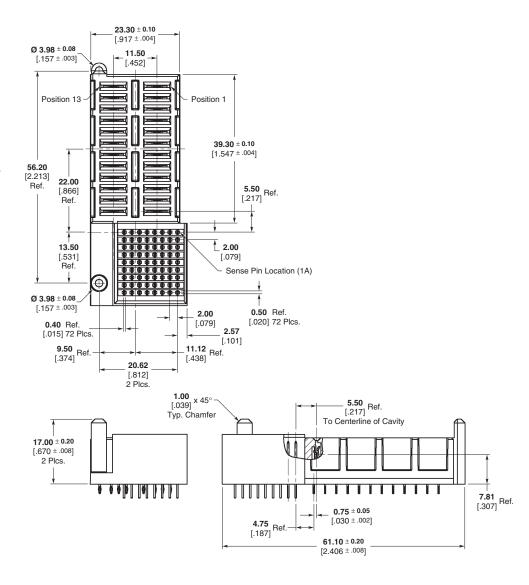
Product Defined in MicroTCA Specification (Continued)

MINIPAK HD Power Connectors (Continued)

Vertical Receptacle Part Number 1469920-1● (tin-lead pcb tails)

Part Number 1469920-2 (tin plated pcb tails)

The vertical connector consists of 72 2 mm pin and 24 UPM receptacle contacts. The contacts have compliant pin tails for press-fit applications.



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Note: Part Numbers are RoHS compliant except: • Indicates "5 of 6 compliant" (lead in solderable interface only).



Solutions for AdvancedTCA, AdvancedTCA 300, MicroTCA, and AdvancedMC Standards

Product Defined in MicroTCA Specification (Continued)

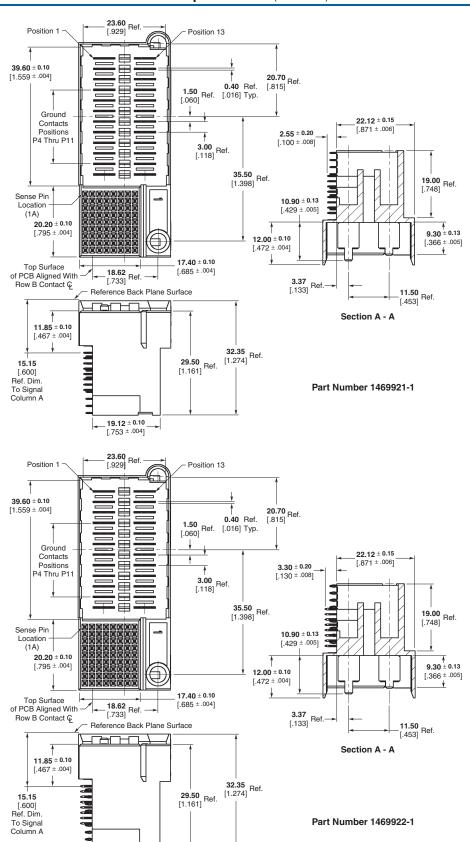
MINIPAK HD Power Connectors (Continued)

Right Angle Plug Part Number 1469921-1 (solder tail)

Part Number 1469922-1 (press-fit)

Part Number 1469922-2● (press-fit, tin-lead pcb tails)

The right angle connector consists of 72 high density signal pins and 24 right angle UPM blades in a 2 x 12 configuration. There are 8 power blades that are longer for first mate/break last ground sequencing. The right angle connectors come in 2 piece tail variations, press-fit and solder.



Note: Part Numbers are RoHS compliant except: ● Indicates "5 of 6 compliant" (lead in solderable interface only).

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_____19.12 ± 0.10 _____

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UK: 44-8706-080-208 C. America: 52-55-1106-0803

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

Product Defined in MicroTCA Specification

Product Compliant to xTCA AdvancedMC Specifications

Product Compliant to xTCA or AdvancedMC Specifications

Stacked RJ45 Modular Jacks for AdvancedTCA, AdvancedMC Standards

Tyco Electronics has released new stacked RJ45 modular jacks designed to meet both AdvancedTCA and AdvancedMC standards. The offset has been designed to fit the faceplate and board layout in AdvancedTCA and full-size AdvancedMC modules, while providing the port density of the stacked configuration. These jacks are shielded and include panel ground springs for EMI containment. They are available in 2x1, 2x4, 2x6, and 2x8 configurations, with and without LEDs, and are designed for GigE performance.

www.tycoelectronics.com/products/atca

Catalog 82066



FEATURES

- Offset designed to meet both AdvancedTCA and AdvancedMC standards
- Category 5 Performance
- Available in 2x1, 2x4, 2x6, and 2x8 configurations
- Press-fit termination to the board
- Available with various LED options

Part Number (3.27 mm Offset)	Configuration	LED #1 (Lower Port Left Side)	LED #2 (Upper Port Left Side)	LED #3 (Upper Port Right Side)	LED #4 (Lower Port Right Side)	Ground Clips	Shield Side Ground Pins
1888652-1	2x1	None	None	None	None	No	Yes
1888652-2	2x1	None	None	None	None	Yes	Yes
1888653-1	2x1	Green	Green	Green	Green	No	Yes
1888653-2	2x1	Green	Green	Green	Green	Yes	Yes
1888653-3	2x1	Yellow	Yellow	Green	Green	Yes	Yes
1888653-4	2x1	Green	Green	Yellow	Yellow	Yes	Yes
1888506-1	2x4	None	None	None	None	No	Yes
1888506-2	2x4	None	None	None	None	Yes	Yes
1888507-1	2x4	Green	Green	Green	Green	No	Yes
1888507-2	2x4	Green	Green	Green	Green	Yes	Yes
1888507-3	2x4	Green	Green	Yellow	Yellow	No	Yes
1888507-4	2x4	Green/Yellow	Green/Yellow	Green/Yellow	Green/Yellow	Yes	Yes
1888508-1	2x6	None	None	None	None	No	Yes
1888508-2	2x6	None	None	None	None	Yes	Yes
1888509-1	2x6	Green	Green	Green	Green	No	Yes
1888509-2	2x6	Green	Green	Green	Green	Yes	Yes
1888509-3	2x6	Green	Green	Yellow	Yellow	No	Yes
1888509-4	2x6	Green/Yellow	Green/Yellow	Green/Yellow	Green/Yellow	Yes	Yes
1888654-1	2x8	None	None	None	None	No	No
1888654-2	2x8	None	None	None	None	No	Yes
1888654-3	2x8	None	None	None	None	Yes	Yes
1888654-4	2x8	None	None	None	None	Yes	No
1888655-1	2x8	Green	Green	Green	Green	No	No
1888655-2	2x8	Green	Green	Green	Green	No	Yes
1888655-3	2x8	Green	Green	Green	Green	Yes	Yes
1888655-4	2x8	Green	Green	Green	Green	Yes	No
1888655-5	2x8	Green	Green	Yellow	Yellow	No	Yes

Note: Part Numbers are RoHS compliant.

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Catalog 3-1773445-8 Revised 6-07

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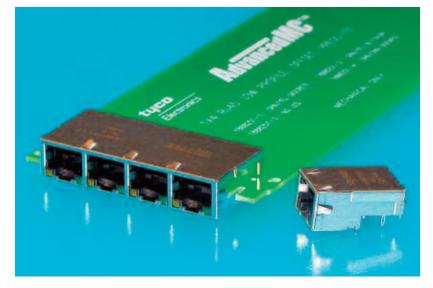
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



Product Compliant to xTCA or AdvancedMC Specifications (Continued)

Low Profile RJ45 Modular Jacks

To meet the requirements for I/O connectors on AdvancedTCA and AdvancedMC cards, Tyco Electronics has released new low profile RJ45 modular jacks. The offset from the board is designed such that it fits in an AdvancedMC half height faceplate. These jacks are shielded and include panel ground springs for EMI containment. They are available in single port and 1x4 configurations, with and without LEDs, and are designed for GigE performance.



FEATURES

- Category 5e Performance
- Available in single port and 1x4 configurations
- Low profile meets half height requirements. 4.20 mm above PCB, 7.38 mm below PCB
- Press-fit termination to the board
- Available with various LED options

Part Number	Configuration	LED (Left)	LED (Right)
1888250-1	1x1	Green	Yellow
1888250-2	1x1	Green/Yellow	Green/Yellow
1888250-3	1x1	None	None
1888250-4	1x1	Green	Green
1888251-1	1x4	Green	Yellow
1888251-2	1x4	Green/Yellow	Green/Yellow
1888251-3	1x4	None	None
1888251-4	1x4	Green	Green

Note: Part Numbers are RoHS compliant.

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Catalog 3-1773445-8 Revised 6-07

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South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

Product Compliant to xTCA or AdvancedMC Specifications

Product Compliant to xTCA AdvancedMC Specifications

Product Compliant to xTCA or AdvancedMC Specifications (Continued)

AdvancedTCA — Front & Rear I/O Connectors – SFP Modules

The SFP (Small Form-Factor Pluggable) supports hot swap of various types of fiber optics and copper based transceivers into host equipment. This allows the customer to have a flexible change between different protocols. The different applications are Fiber Channel, Ethernet, and Infiniband. SFP board cages exist in multiple versions that fit AdvancedTCA systems.

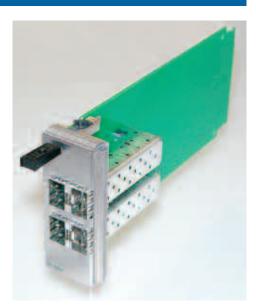
The one port cages are available in a one piece design (press-fit or solder) and a two piece design (press-fit, solder or SMT). Ganged versions (available in 1x6; 1x4; 1x2) are available with or without light pipes. The ganged product has the option of integrated host connector. Tyco Electronics is currently developing stacked versions (2x4 as primary option) that fit AdvancedTCA requirements.

www.tycoelectronics.com/product/atca www.sfp.tycoelectronics.com

Catalog 1773408 Flyer 1654720 / 1654095 / 1773078

FEATURES

- Products according to MSA (Multi-Source Agreement)
- Uses 20 positions PT connector
- Hot Swappable
- Three stage sequencing
- Supports data-rates up to 5 Gbps
- Chassis ground for pass through EMI protection to 12.5 Gbps
- Accepts copper and fiber optic transceivers
- Direct attach copper cable assemblies available with or without active equalization.



SFP Modules

Part Number	Port Configuration	Insertion Style	Connector Included	Height Profile
Stacked				
1658628-1	2x1	Press-fit	Yes	Low
1658629-1	2x4	Press-fit	Yes	Low
1658894-1	2x6	Press-fit	Yes	Low
Ganged				
1761014-1	1x2	Press-fit	No	_
1658744-1	1x4	Press-fit	No	_
1761015-1	1x6	Press-fit	No	_
Single				
6367035-1	1x1	Solder Tail	No	Standard
6367034-1	1x1	Solder Tail	No	Standard
1489669-1	1x1	Press-fit	No	Standard
1489779-1	1x1	Press-fit	No	Standard

Note: Part Numbers are RoHS compliant.

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Catalog 3-1773445-8

Revised 6-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

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UK: 44-8706-080-208



Product Compliant to xTCA or AdvancedMC Specifications (Continued)

AdvancedTCA — Front & Rear I/O Connectors — MRJ21 Receptacles

Tyco Electronics' MRJ21 receptacle is a high density I/O interconnect. This high density connector supports AdvancedMC Mid-size and Full-size module face plates and AdvancedTCA face plates. It can also be used for Rear I/O via Rear Transition Modules (RTMs), as well as in AdvancedTCA Zone 3 applications.

The MRJ21 connector is fully shielded and provides density savings for current 10/100 or GbE RJ45/RJ21 applications. The low profile and narrow width design will allow more ports to be packed into less space.

Tyco Electronics offers a full end-user solution with cleaner cabling solutions over RJ45s, and patch panels for plug-and-play environment, including data centers and zone cabled or open office environments.

www.tycoelectronics.com/products/atca

FEATURES

- 1.5 to 3 times the port density of stacked Mod Jacks (RJ45). 3 times the port density of RJ21
- Contact layout and footprint for differential pairs creates reduced cross-talk and built in compensa-
- Connector is designed to meet or exceed Cat 5e cross-talk
- Fully shielded system to control EMI (Electro-magnetic Interference)
- Robust die cast cable covers provide 45 degrees left or right cable exit for ease of routing
- 1 mm pair spacing, 1.5 mm pair to pair spacing
- · Patch panels and cable management solutions available





MRJ21 PCB Receptacles (48-position)

		,
Part Number	Panel Grounds	PCB Termination
1761482-1	No	Solder
1761482-2	Yes	Solder
1761482-4	No	Press-Fit

Screwlocks sold separately

Note: Part Numbers are RoHS compliant.

Receptacle Screwlocks

Part Number	Panel Thickness
1339381-1	< 1mm
1339381-2	> 1mm to < 2mm

AdvancedTCA — Thermal Products & Services

Thermal Interface Products are mandatory for reducing the waste heat and cooling the system in the most efficient way. Waste heat reduces the silicon chip reliability and performance. In addition to the products Tyco Electronics is offering such as Heat Sinks, Heat Pipes and CHIP COOLERs, in all shapes and sizes, Tyco Electronics offers state of the art Thermal Management Services. Thermal Management is the design practice of moving waste heat to locations that do not affect the equipment or overall device performance. Each Thermal Product can be fully customized to fulfill the specific requested system cooling requirements.

www.tycoelectronics.com/products/atca www.thermal.tycoelectronics.com

Catalog 1309431 Flyer 1308225

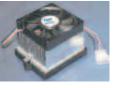
FEATURES

- Tyco Electronics thermal solutions provide optimum cooling for active components like BGA (Ball Grid Array), MCM modules, optical modules and power devices
- Compatible to most AdvancedTCA connector form factors, low profile solutions
- Off the shelf as well as customized products
- · Heat pipe technology in combination with passive heat sinks Advanced thermal conductive
- polymer for weight and cost reduction • Full CFD (Computational Fluid Dynamics) simulation and analy-

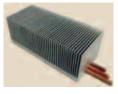
sis, optimum Thermal design

analytical











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Product Compliant to xTCA or AdvancedMC Specifications

numerical and

approaches

Product Compliant to xTCA AdvancedMC Specifications

Product Compliant to xTCA or AdvancedMC Specifications (Continued)

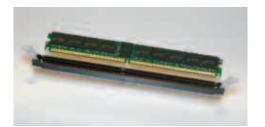
Low Profile DDR2 Connector for AdvancedTCA Standards

The new Tyco Electronics Low Profile DDR2 connector is designed for the main memory requirements on the AdvancedTCA carrier boards. Developed for use with a new VLP (Very Low Profile) module from Micron Technology, this connector meets the AdvancedTCA height limitations on the carrier board.

In addition, this connector offers a new ejector design that allows airflow to reach the memory module DRAMs for effective cooling.

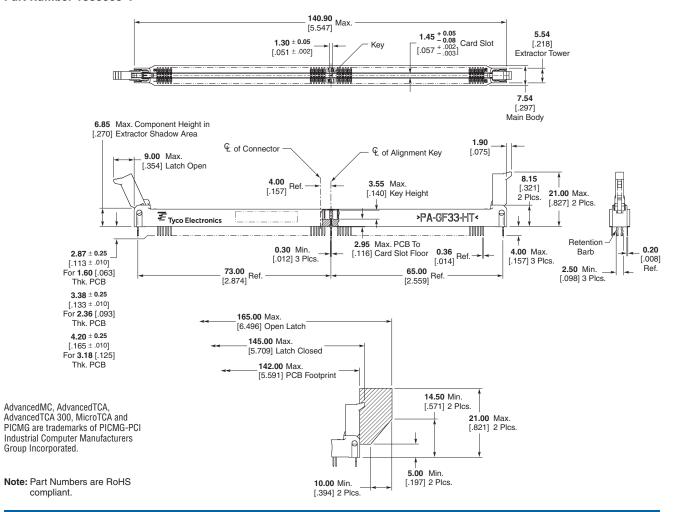
FEATURES

- Accepts new Micron Technology VLP (Very Low Profile) DDR2 memory module designed specifically for the AdvancedTCA carrier board
- Special designed ejectors that allow airflow to reach memory module DRAMs for efficient cooling
- Low module seating plane allows for increased module space for module components in a VLP form factor
- Utilizes proven Tyco Electronics DDR2 contact design for reliable interface to the memory module
- Available in 3 solder tail lengths and contact interface plating options





Part Number 1888669-1



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Catalog 3-1773445-8

Revised 6-07 www.tycoelectronics.com Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

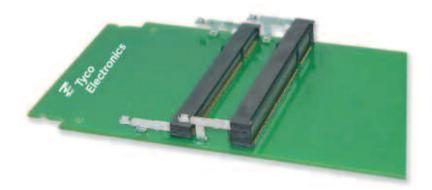
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



Product Compliant to xTCA or AdvancedMC Specifications (Continued)

Small Outline Dual In-Line Memory Module (SO DIMM) for AdvancedMC Applications

The Small Outline Dual In-Line Memory Module (SO DIMM) is the latest in the Tyco Electronics DIMM product line and was specifically designed to meet the AdvancedMC Specification. The SO DIMM has 200 positions in a dual row design, and features gold flash solder tail contact plating. Available in two heights, the SO DIMM will fit any AdvancedMC Application.

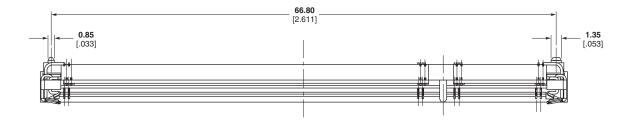


FEATURES

- 200 positions
- Gold Flash Solder Tail Contact Plating

Part Number	Stack Height	Keying Feature
1981281-4	5.20 .203	Reverse
1981276-4	5.20 .203	Standard
1981287-4	9.20 .360	Reverse
1981284-4	9.20 .360	Standard

Part Number 1981281-4



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Note: Part Numbers are RoHS compliant.

Catalog 3-1773445-8 Revised 6-07

and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are U.S. equivalents.

Dimensions are in millimeters

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South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

Product Compliant to xTCA or AdvancedMC Specifications

Product Compliant to xTCA or AdvancedMC Specifications

Product Compliant to xTCA or AdvancedMC Specifications (Continued)

1.0 mm Free Height (FH) (IEEE 1386) Connectors

As a standard for adding local PCI or Sbus performance to Futurebus+ and VMEbus applications, IEEE 1386 offers new levels of performance and packaging convenience through the mezzanine architecture.

Tyco Electronics makes it easier and more productive to add an IEEE 1386 mezzanine connector to your system. The surface-mount parallel stacking connector features contacts on a 1.0 [.039] pitch and is available in eight stacking heights from 8 [.315] to 15 [.591]. Sizes include the IEEE 1386 standard 64-position version and an optional 84-position version.

Not only is the connector compatible with EIA-700 AAAB — the connector standard for IEEE 1386 mezzanine connectors — it offers several enhancements that make it easier to use and more reliable. Increased plastic clearance between mating connectors makes it easier to align multiple connectors for mating, thus eliminating stress to the solder joints during engagement. Improved locating posts allow fast, highly accurate hand placement of connectors. The connectors are available with vacuum covers for automated placement.

Performance Characteristics

Current Rating —

1.0 ampere per contact

Contact Resistance — 30 milliohms max. (initial)

Durability — tested to 100 mating cycles min.

Product Specification

108-2246

1.0 mm FH (IEEE 1386) Receptacles and Plugs without Locating Posts, 1.0 [.039] Pitch

8 [.315] thru 15 [.591] Stacking Heights Material and Finish

Housing — Liquid crystal polymer,

Contacts — Phosphor bronze; duplex plated 0.00076 [.000030] or .00127 [.00050] min. gold on contact area, 0.00381 [.000150] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

Vacuum Cover — Aluminum Alloy

Technical Documents
EIA-700 AAAB Specification
Application Specification
114-25045

FEATURES:

- For board stacking applications
- High density packaging on 1.0 [.039] centerline spacing
- Available in standard 64-position and optional 84-position sizes
- "Tape-and-reel" packaged per EIA standards
- Board stacking heights available from 8 [.315] to 15 [.591]
 Increased plastic clearance
- eliminates stress to solder joints during mating
- Improved locating posts provide accurate hand or robotic placement
- Meets EIA-700 AAAB specifications for IEEE 1386 applications



		Recentacle	Part Number
No. of Positions	Height	30μ" Au Plating w/ pickup cap	50µ" Au Plating w/ pickup cap
	5.37 .211	5120528-1	1-5120528-1
64	7.37 .290	5120529-1	1-5120529-1
64	8.37 .330	5120530-1	1-5120530-1
	10.37 .408	5120531-1	1-5120531-1
84	5.37 .211	5120528-2	1-5120528-2
	7.37 .290	5120529-2	1-5120529-2
	8.37 .330	5120530-2	1-5120530-2
	10.37 .408	5120531-2	1-5120531-2

Notes: 1. Shorter solder lands may be used per EIA-700 AAAB. However, the 2.4 [.094] length assures optimum solder fillet regardless of connector manufacturer.

No. of		Plug Par	t Number
Positions	Height	30μ" Au Plating w/ pickup cap	50μ" Au Plating w/ pickup cap
	6.35 .250	5120532-1	1-5120532-1
64	7.35 .289	5120533-1	1-5120533-1
·	8.35 .329	5120534-1	1-5120534-1
	6.35 .250	5120532-2	1-5120532-2
84	7.35 .289	5120533-2	1-5120533-2
	8.35 .329	5120534-2	1-5120534-2

Notes: 1. Shorter solder lands may be used per EIA-700 AAAB. However, the 2.7 [.106] length assures optimum solder fillet regardless of connector manufacturer.

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Note: Part Numbers are RoHS compliant.

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Catalog 3-1773445-8 Revised 6-07

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Product Compliant to xTCA or AdvancedMC Specifications (Continued)

AdvancedTCA — Power Distribution & Management Modules

Tyco Electronics Power Systems introduces the industry's first power input management solution for AdvancedTCA boards. The AdvancedTCA power input module (PIM) is designed in collaboration with industry leading AdvancedTCA board manufacturers and provides innovative features and compact design. PIM modules incorporate all the features required by AdvancedTCA specifications (PICMG 3.0) and enable designers to save valuable board real estate and reduce overall board cost and time to market compared to discrete solutions.

A Complete Power Architecture

PIM series along with Tyco Electronics' isolated DC/DC and bus converters and point of load modules, provide a complete and low-cost power architectural solution while complying with AdvancedTCA board power requirements.

www.tycoelectronics.com/products/atca www.power.tycoelectronics.com

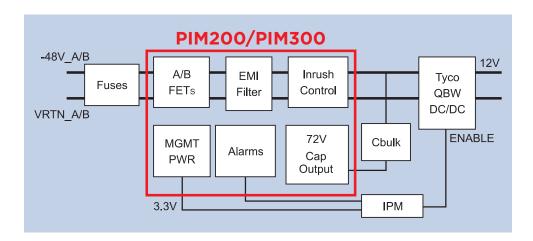
Flyer PIM05-001

FEATURES

- 200/300 W of power (per PICMG
- Inrush control protection
- Integrated EMI filter designed to meet CISPR Class B Limits
- Directive 2002/95/EC RoHS com-
- 8 W of Isolated auxiliary power supply for IPMI (3.3 V or 5 V)
- O-Ring FETs for -48 V A&B feeds
- A/B feed loss alarm
- Hot-swap control
- 72 V charging voltage for holdup/ bulk capacitors
- Through-hole and surface mount (SMT) versions
- Input under-voltage and over-voltage protections
- Over current and thermal protec-
- UL/CSA/CE/VDE approved



	PIM	Discrete
PICMG 3.0 compliant	Yes	Board level
Fully tested & burned-in	Yes	Board level
Fully qualified	Yes	Board level
Parts count	1	> 100
Design-in time	Lower	Higher
Assembly cost	Lower	Higher
Yield/Repair cost	Lower	Higher
Time to market	Lower	Higher
Standard off-shelf part	Yes	No



Input Voltage	Output Power	V _{mg/mt} Output	Connector Type	Comcode
-48 V (-38 to -75 V DC)	200 W	-3.3 V DC	Thru Hole	CC109101813
-48 V (-38 to -75 V DC)	200 W	-5.0 V DC	Thru Hole	CC109106762
-48 V (-38 to -75 V DC)	300 W	-3.3 V DC	Thru Hole	CC109113858
-48 V (-38 to -75 V DC)	300 W	-5.0 V DC	Thru Hole	CC109122322
	-48 V (-38 to -75 V DC) -48 V (-38 to -75 V DC) -48 V (-38 to -75 V DC)	-48 V (-38 to -75 V DC) 200 W -48 V (-38 to -75 V DC) 200 W -48 V (-38 to -75 V DC) 300 W	Input voltage Power Output -48 V (-38 to -75 V DC) 200 W -3.3 V DC -48 V (-38 to -75 V DC) 200 W -5.0 V DC -48 V (-38 to -75 V DC) 300 W -3.3 V DC	-48 V (-38 to -75 V DC) 200 W -3.3 V DC Thru Hole -48 V (-38 to -75 V DC) 200 W -5.0 V DC Thru Hole -48 V (-38 to -75 V DC) 300 W -3.3 V DC Thru Hole

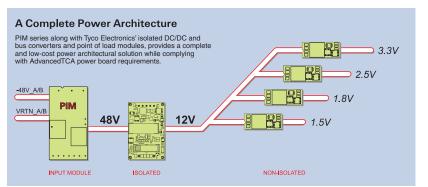
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Product Compliant to xTCA or AdvancedMC Specifications

Product Compliant to xTCA or AdvancedMC Specifications

Product Compliant to xTCA or AdvancedMC Specifications (Continued)

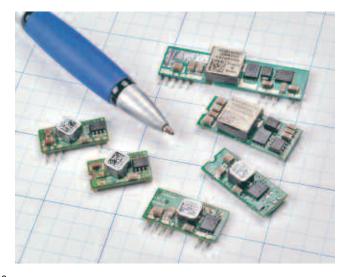
AdvancedTCA — Power Distribution & Management Modules (Continued)





Isolated Bus Co	nverters								
Full Featured DC-DC Converter Series	Output Power (W)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Efficiency (%)	Current Share	Form Factor	Connection Type	Base Plate
EQW006A0B	72 W	6 A	48 V (36 – 75)	12 V (11.6 – 12.4)	92 %	No	Eight-Brick	TH/SMT	No
EQW010A0B	120 W	10 A	48 V (36 – 75)	12 V (11.4 – 12.6)	93 %	No	Eight-Brick	TH	Yes
QBW018A0B	200 W	18 A	48 V (36 – 75)	12 V (11.4 – 12.6)	94 %	Yes	Qtr-Brick	TH	Yes
QBW025A0B	300 W	25 A	48 V (36 – 75)	12 V (11.4 – 12.6)	94 %	Yes	Qtr-Brick	TH	Yes
JRB017A0B	200 W	17 A	48 V (36 – 75)	12 V (11.7 – 12.3)	92 %	Yes	Half-Brick	TH	Yes

Non-Isolated DC-DC Converters										
Austin Lynx Series	Output Current (A)	Input Voltage Range (V)	Output Voltage Range (V)	Efficiency (%)	Output Programmable	Remote On/Off	Remote Sense	EZ- Sequence	Connector Type	
Austin MiniLynx	3 A	8.3 – 14 V	0.75 - 5.0 V	91 %	Yes	Yes	No	No	SIP/SMT	
Austin MicroLynx	5 A	10 – 14 V	0.75 - 5.0 V	89 %	Yes	Yes	No	No	SIP/SMT	
Austin Lynx	10 A	10 – 14 V	0.75 - 5.0 V	93 %	Yes	Yes	Yes	No	SIP/SMT	
Austin SuperLynx	16 A	10 – 14 V	0.75 - 5.0 V	92 %	Yes	Yes	Yes	No	SIP/SMT	
Austin Lynx II Series	Output Current (A)	Input Voltage Range (V)	Output Voltage Range (V)	Efficiency (%)	Output Programmable	Remote On/Off	Remote Sense	EZ- Sequence	Connector Type	
Austin MicroLynx II	6 A	8.3 – 14 V	0.75 - 5.0 V	89 %	Yes	Yes	No	Yes	SIP/SMT	
Austin Lynx II	10 A	8.3 – 14 V	0.75 - 5.0 V	93 %	Yes	Yes	Yes	Yes	SIP/SMT	
Austin SuperLynx II	16 A	8.3 – 14 V	0.75 - 5.0 V	92 %	Yes	Yes	Yes	Yes	SIP/SMT	
Austin MegaLynx II	25 A	6.0 – 14 V	0.80 - 3.3 V	92.5 %	Yes	Yes	Yes	Yes	SIP/SMT	



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Part Number Index

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Solutions for AdvancedTCA, AdvancedTCA 300, MicroTCA, and AdvancedMC Standards

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The latest information on new developments from various Tyco Electronics brands.

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· Products —

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Customer Service and Support –

Find contact numbers for Customer Service and Product Information Help Desks plus FAQs and online technical assistance.

Product Websites

www.tycoelectronics.com/products/atca

www.tycoelectronics.com

www.elastomerictech.com

www.power.tycoelectronics.com

www.antenna.tycoelectronics.com

www.hmzd.tycoelectronics.com

www.mpi.tycoelectronics.com

www.thermal.tycoelectronics.com www.multigigrt.tycoelectronics.com

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